

CHEMISTRY-11	Chapter#11(Complete-Smart Syllabus) Test-2		
	Name:	Class:	ID:
Date: / /	Marks Total: 25	Marks Obtained:	
Time Allowed: 40 Min.			

Maximum Marks: 09

(OBJECTIVE TYPE)

Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- If the rate equation of a reaction $2A + B \longrightarrow \text{Products}$ is, $\text{rate} = k [A]^2[B]$, and A is present in large excess, then order of reaction is:
 - 1
 - 2
 - 3
 - None
- The rate of reaction determined at any given time is called:
 - Average rate
 - Instantaneous rate
 - Spontaneous rate
 - Overall rate
- In the beginning of the reaction, the instantaneous rate is _____ than the average rate.
 - Lower
 - Higher
 - Equal
 - None
- The hydrolysis of tert-butyl bromide is a:
 - First order reaction
 - Second order reaction
 - Third order reaction
 - Pseudo first order reaction
- For a first order reaction, if the concentration of the reactants is doubled, the half-life:
 - Also becomes double
 - Becomes half
 - Becomes four times
 - Remains same
- The necessary condition for a collision to be effective:
 - Activation energy
 - Proper orientation
 - Both 'a' & 'b'
 - None
- Powdered Al reacts more rapidly with NaOH because of:
 - Greater surface area
 - Greater number of collisions
 - Both 'a' & 'b'
 - None
- Arrhenius equation explains the effect of _____ on the rate constant of a reaction.
 - Temperature
 - Concentration
 - Pressure
 - Activation energy
- The slope obtained by Arrhenius equation is equal to:
 - $\frac{E_a}{2.303 R}$
 - $-\frac{E_a}{2.303 R}$
 - $\frac{E_a}{2.303 RT}$
 - $-\frac{E_a}{2.303 RT}$

Maximum Marks: 16

(SUBJECTIVE TYPE)

Time Allowed: 30 Min.

SECTION-I

Q.2: Give brief answers to the following questions:

(12)

- Define reaction kinetics.
- Define order of reaction? Give an example.
- Photochemical reactions are usually zero order reactions. Explain.
- What are reaction intermediates?
- Combustion occurs more rapidly in pure oxygen than in air, why?
- How does light affect the rate of photochemical reactions?

SECTION-II

NOTE: Attempt All Questions:

(04)

Q.3: What is half life period? Give example, also give its mathematical form.